CLAIMS:

1. An organic electroluminescent component having a layer composite, which comprises

a) a substrate layer,

b) a first transparent electrode layer,

c) a mixing layer having

c.1) a matrix of a conductive organic material with one or more singlet states and one or more triplet states, selected from the group: p-conductive and n-conductive materials,

c.2) in this matrix, a light-emitting material which comprises a metallo-organic complex compound with an emissive triplet state, and

d) a second electrode,

wherein the lowest-energy triplet state of the conductive organic material is higher than the emissive triplet state of the metallo-organic complex compound by an energy difference E_t.

2. An organic electroluminescent component as claimed in claim 1, characterized in that the energy difference is $E_t \geq 2000\ cm^{-1}$.

3. An organic electroluminescent component as claimed in claim 1, characterized in that the conductive organic material comprises a structural element which is a benzene ring substituted with an organic substituent R- in the meta position.

4. An organic electroluminescent component as claimed in claim 1, characterized in that the conductive organic material comprises a structural element which is a biphenyl substituted with an organic substituent R- in the meta position.

5. An organic electroluminescent component as claimed in claim 4, characterized in that the structural element is a biphenyl multiply substituted in the meta position.

6. An organic electroluminescent component as claimed in claim 1, characterized in that that the conductive organic material is selected from the group: molecularly doped

organic polymers, semiconducting conjugated polymers, intrinsically conductive organic polymers, oligomers, and conductive organic monomers, and mixtures thereof.

7. An organic electroluminescent component as claimed in claims 3 and 4, characterized in that the substituent R- is selected from the group of organic substituents: phenyl and derivatives, arylamine and derivatives, oxadiazole and derivatives, triazole and derivatives, triphenylamine and derivatives, carbazole and derivatives, oxadiazoles and derivatives, triazoles and derivatives, triazines and derivatives, fluorenes and derivatives, hexaphenylbenzene and derivatives, phenanthroline and derivatives, pyridine and derivatives.